

Amendments to the Claims:

The listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1. (Currently Amended) A system for anchoring a device to a lesion in the vasculature of a patient, which comprises:

a flexible member defining an axis and having an inner surface and an outer surface, wherein said outer surface is formed with a plurality of solid integral protuberances seamlessly interconnected therewith to project radially outwardly therefrom;

a ~~[[means]]~~ balloon engaged with said inner surface of said flexible member for moving said member between a first configuration wherein said member is collapsed onto the axis and a second configuration wherein said member is made substantially rigid; and

a longitudinally oriented cutting initiator formed on each said protuberance for penetrating said protuberances into the lesion and for anchoring the device to the lesion.

2. (Original) A system as recited in claim 1 wherein said member is tubular-shaped and has a first end and a second end, said system further comprising:

a first flexible enclosure integrally attached to said first end of said member and extending away therefrom in an axial direction; and

a second flexible enclosure integrally attached to said second end of said member and extending away therefrom in an axial direction, wherein said first enclosure and said second enclosure, in combination with said member, establish an inflatable balloon for the system.

3. (Currently Amended) A system as recited in claim 1 ~~further comprising an inflatable balloon with~~ wherein said inner surface of said member is bonded to said balloon for movement from the first configuration to the second configuration in response to an inflation of said balloon and for movement from the second configuration to the first configuration in response to a deflation of said balloon.

4. (Original) A system as recited in claim 3 wherein said member is ultrasonically bonded to said balloon.

5. (Currently Amended) A system as recited in claim 1 ~~wherein said means for moving said member between the first configuration and the second configuration comprises~~ further comprising a fluid pump for inflating said balloon.

6. (Original) A system as recited in claim 1 wherein said protuberances are a plurality of raised ridges with said ridges oriented substantially parallel to the axis.

7. (Original) A system as recited in claim 6 wherein each said ridge extends radially to an edge that is aligned substantially parallel to the axis.

Claims 8 and 9 (Cancelled)

10. (Original) A system as recited in claim 1 wherein said member and said protuberances are made of a same selected material.

11. (Currently Amended) A system for anchoring a device to a lesion in the vasculature of a patient, which comprises:

a flexible member defining an axis and having an inner surface and an outer surface, with said member having a plurality of solid protuberances projecting radially outward from said outer surface, wherein said member and said protuberances are seamlessly interconnected and are made of a same selected material;

a ~~[[means]]~~ balloon engaged with said inner surface of said flexible member for moving said member between a first configuration, wherein said member is collapsed onto the axis, and a second configuration, wherein said member is substantially rigid and is distanced from the axis;

a longitudinally oriented cutting initiator formed on each said protuberance for penetrating said protuberances into the lesion; and

a means for projecting said protuberances radially away from the axis to penetrate said protuberances into the lesion and anchor the device to the lesion.

12. (Original) A system as recited in claim 11 wherein the selected material is polyethylene terephthalate (PET).

13. (Original) A system as recited in claim 11 wherein said protuberances are a plurality of raised ridges with each said ridge extending to an edge that is aligned substantially parallel to the axis.

Claims 14-31 (Cancelled).

32. (Currently Amended) A system for anchoring a device to a lesion in the vasculature of a patient, which comprises:

a tubular-shaped flexible member having a first end and a second end and defining an axis, said member having an inner surface and an outer surface, wherein said outer surface is formed with a plurality of solid integral protuberances longitudinally oriented and seamlessly interconnected therewith to project radially outwardly therefrom;

a first flexible enclosure integrally attached to said first end and extending away therefrom in an axial direction;

a second flexible enclosure integrally attached to said second end and extending away therefrom in an axial direction, wherein said first enclosure and said second enclosure, in combination with said member, establish an inflatable balloon for the system;

a ~~[[means]]~~ balloon engaged with said inner surface of said flexible member for moving said member between a first configuration wherein said member is collapsed onto the axis and a second configuration wherein said member is made substantially rigid; and

a means for embedding said protuberances into the lesion and for anchoring the device to the lesion.

33. (Previously Presented) A system as recited in claim 32 wherein said means for moving said member between the first configuration and the second configuration comprises a fluid pump.

Claims 34 and 35 (Cancelled)

36. (Currently Amended) A system for anchoring a device to a lesion in the vasculature of a patient, which comprises:

a flexible member defining an axis and having an inner surface and an outer surface, wherein said outer surface is formed with a plurality of solid integral protuberances longitudinally oriented and seamlessly interconnected therewith to project radially outwardly therefrom, said protuberances being a plurality of raised ridges with said ridges oriented substantially parallel to the axis;

a ~~[[means]]~~ balloon engaged with said inner surface of said flexible member for moving said member between a first configuration wherein said member is collapsed onto the axis and a second configuration wherein said member is made substantially rigid; and

a means for embedding said protuberances into the lesion and for anchoring the device to the lesion.

37. (Previously Presented) A system as recited in claim 36 wherein each said ridge extends radially to an edge that is aligned substantially parallel to the axis.

38. (Currently Amended) A system as recited in claim 36 ~~further comprising an inflatable balloon with~~ wherein said inner surface of said member is bonded to said balloon for movement from the first configuration to the second configuration in response to an inflation of said balloon and for movement from the second configuration to the first configuration in response to a deflation of said balloon.

39. (Previously Presented) A system as recited in claim 38 wherein said member is ultrasonically bonded to said balloon.